

6045043

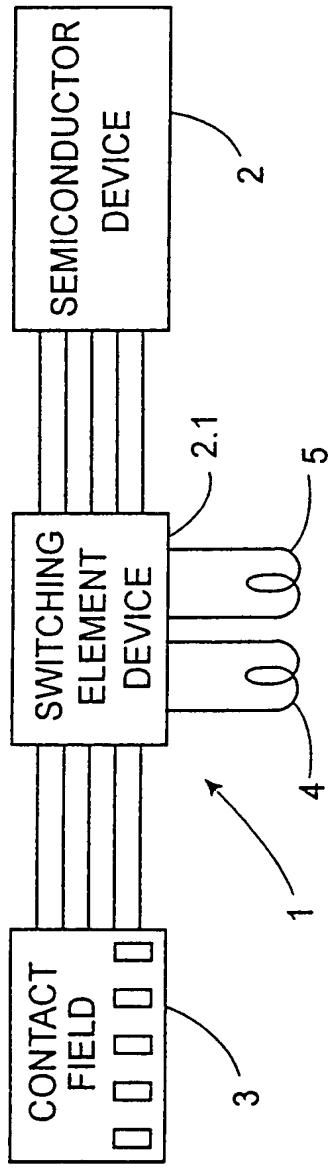


Fig . 1 (PRIOR ART)

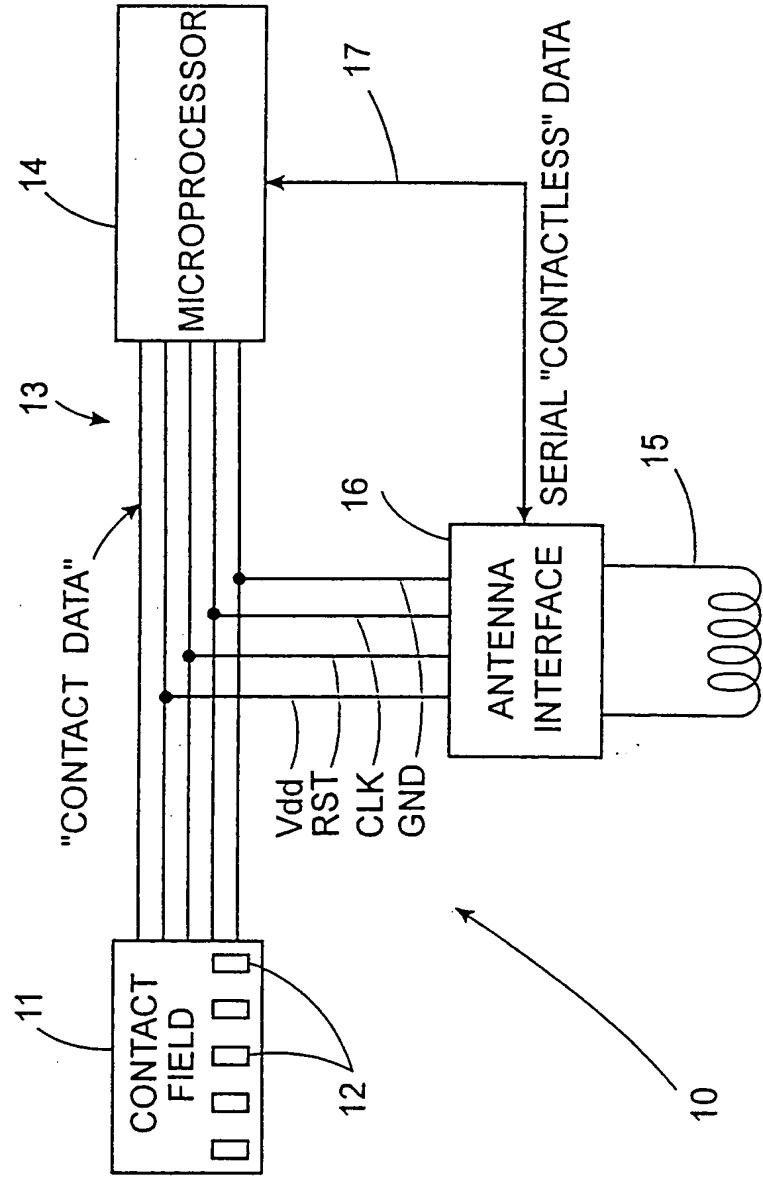


Fig . 2

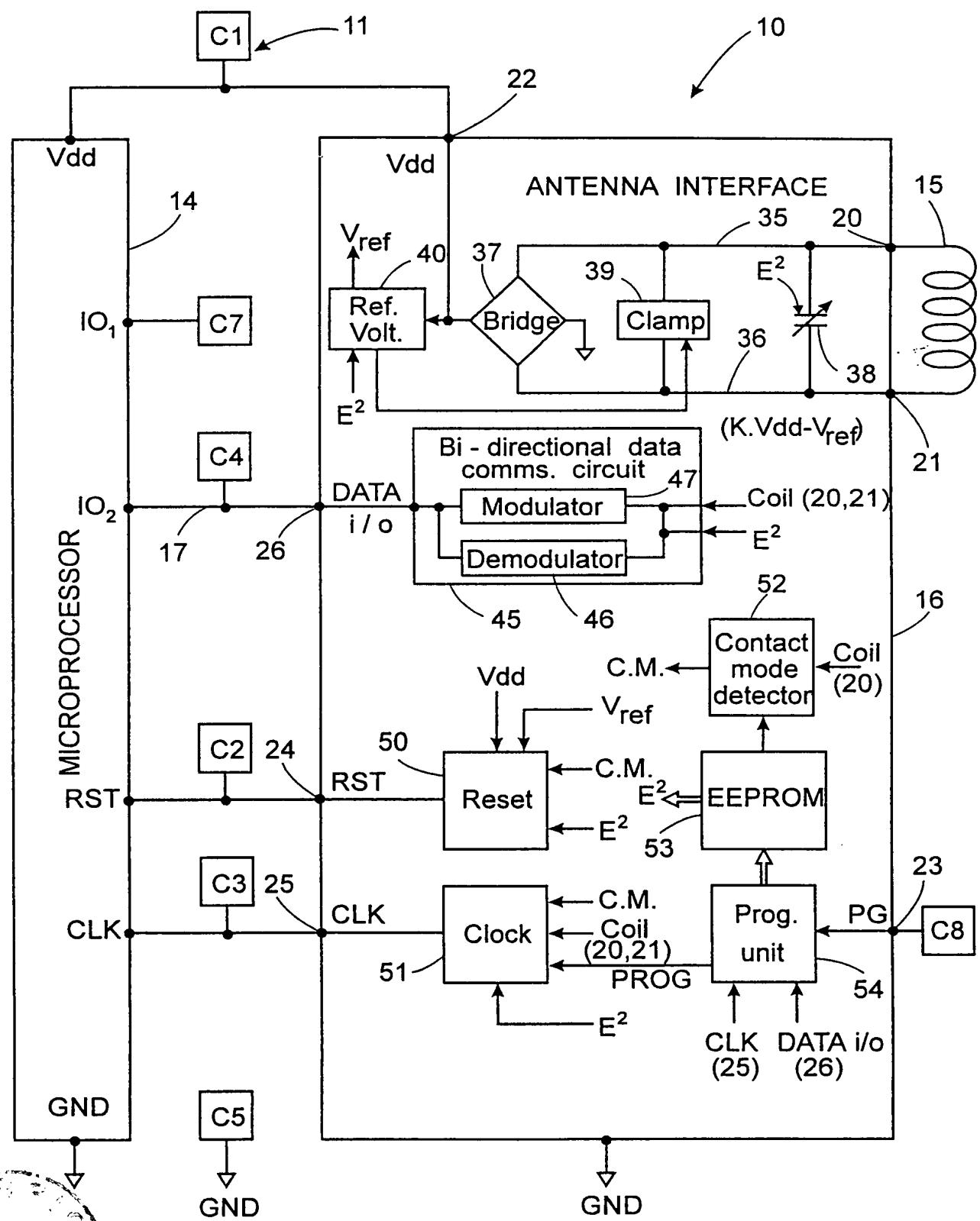


Fig. 3

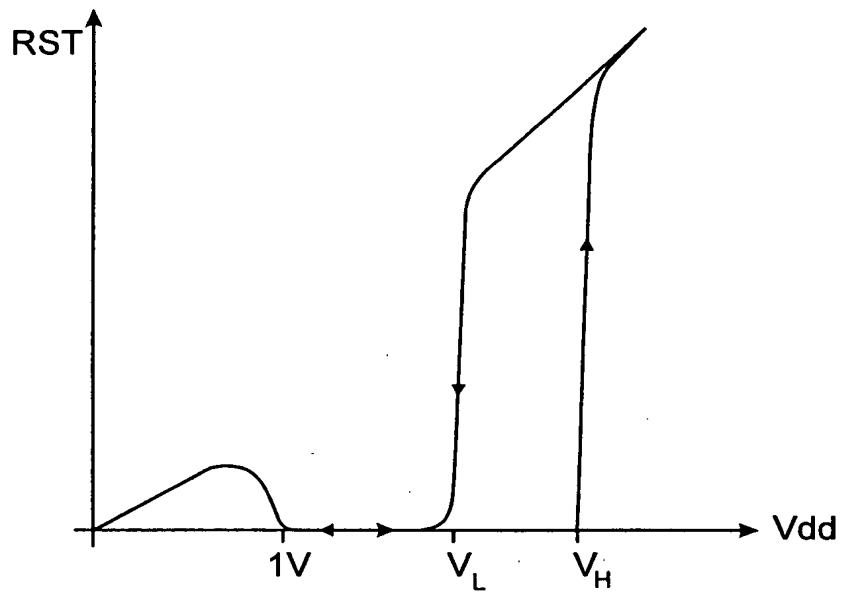


Fig. 4

MICROPROCESSOR		ANTENNA INTERFACE	
CONTACT MODE	CONTACTLESS MODE	CONTACT MODE	CONTACTLESS MODE
$V_{dd} = \sqcup$ $RST = \sqcup$ $CLK = \sqcup\sqcup\sqcup$ $IO_2 = 0 \Rightarrow C.M$ DATA via IO_1 $C.M \{$ data trans- action ISO 7816	$V_{dd} = \diagup$ $RST = \sqcup$ $CLK = \sqcup\sqcup\sqcup$ $IO_2 = 1 \Rightarrow C/L$ DATA via IO_2 $C/L \{$ data trans- action CONTACTLESS PROTOCOL	$V_{dd} = \sqcup$ $RST, CLK =$ TRISTATE E / M FIELD OFF $\Rightarrow C.M. MODE$	$V_{dd} = \diagup$ $RST = \sqcup$ $CLK = \sqcup\sqcup\sqcup$ $E / M FIELD ON$ $\Rightarrow C/L. MODE$ DATA TRANS- ACTION via IO_2

Fig. 5

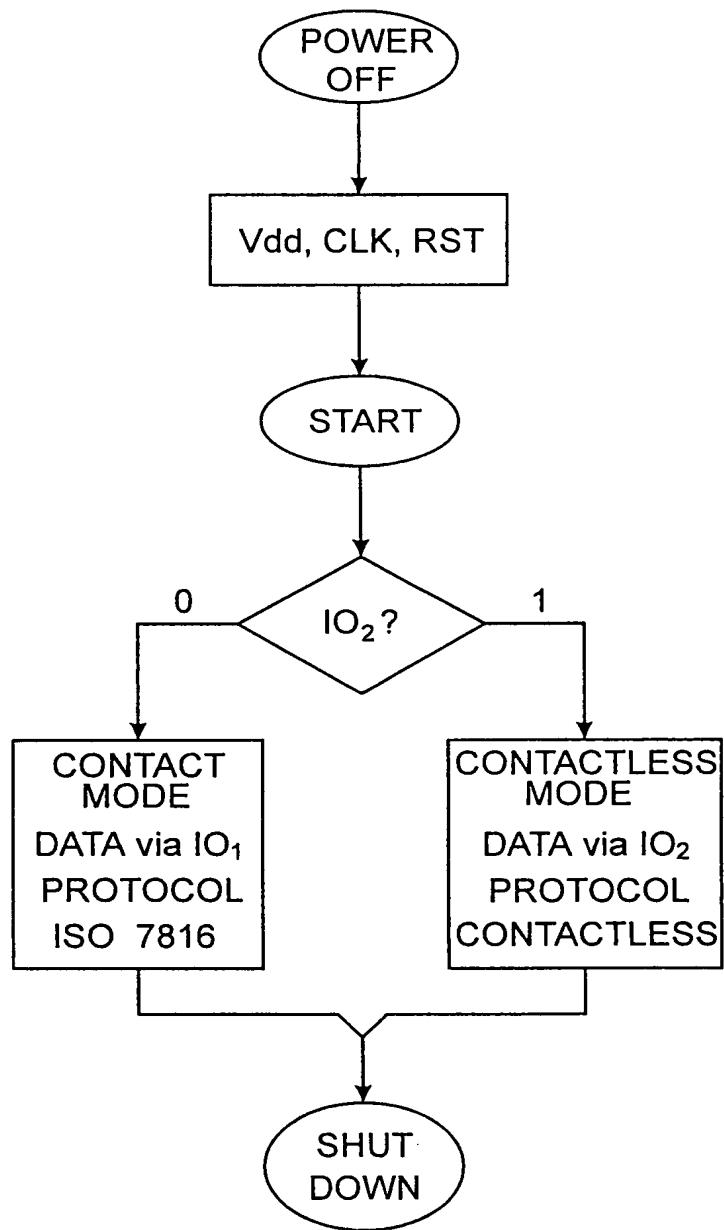


Fig. 6

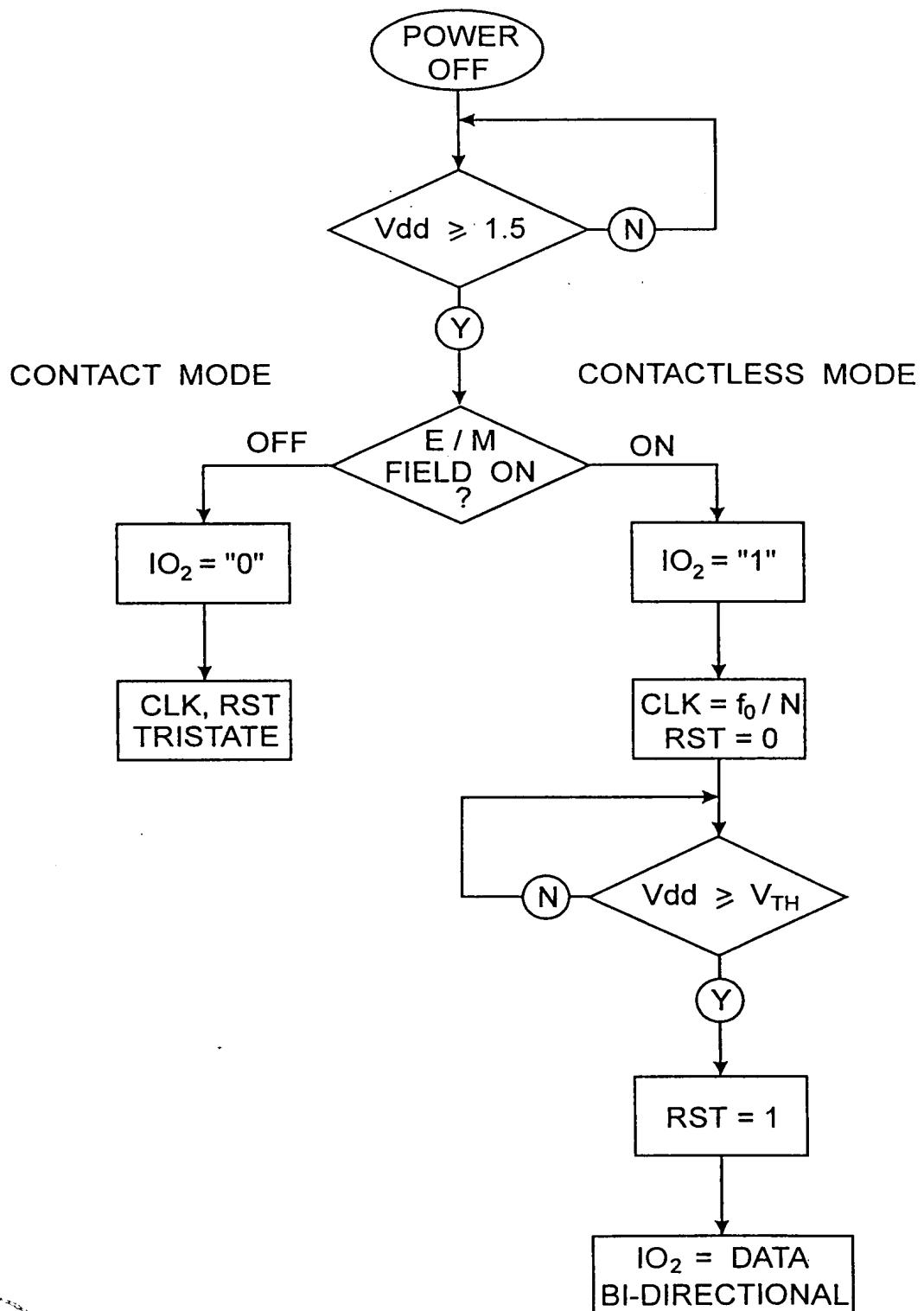


Fig . 7

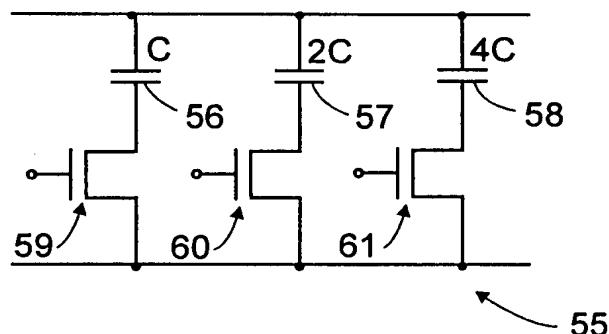


Fig. 8 a

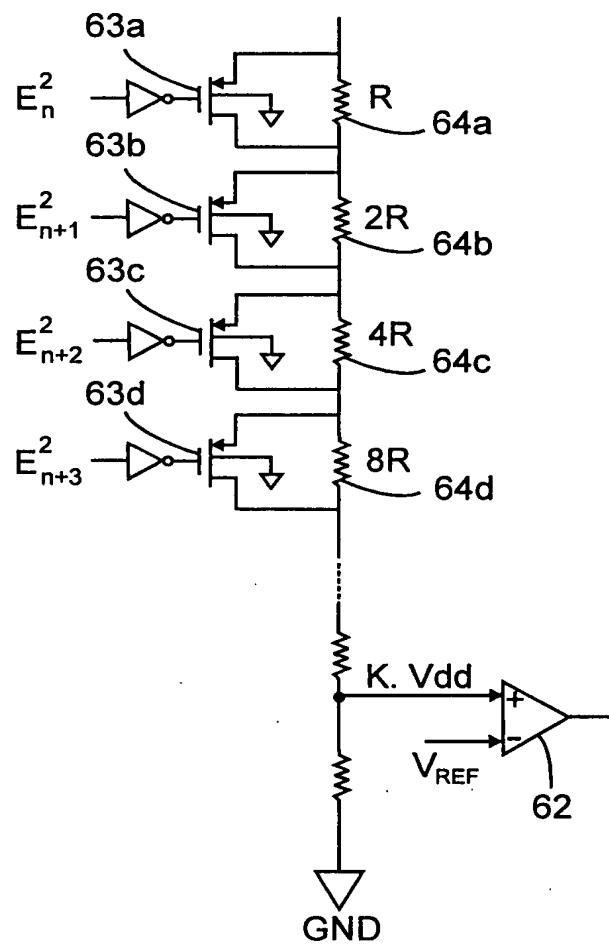


Fig. 8 b

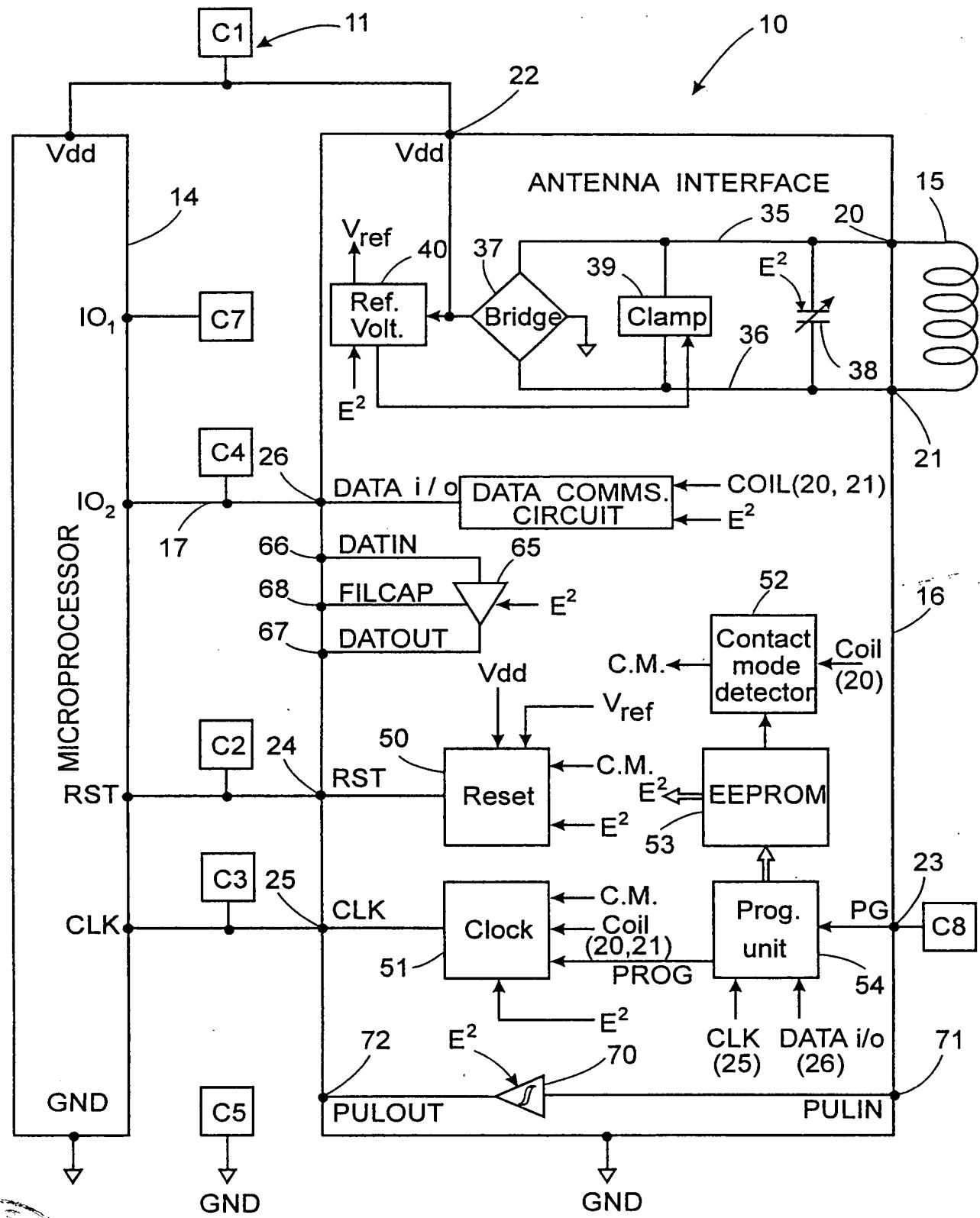


Fig. 9

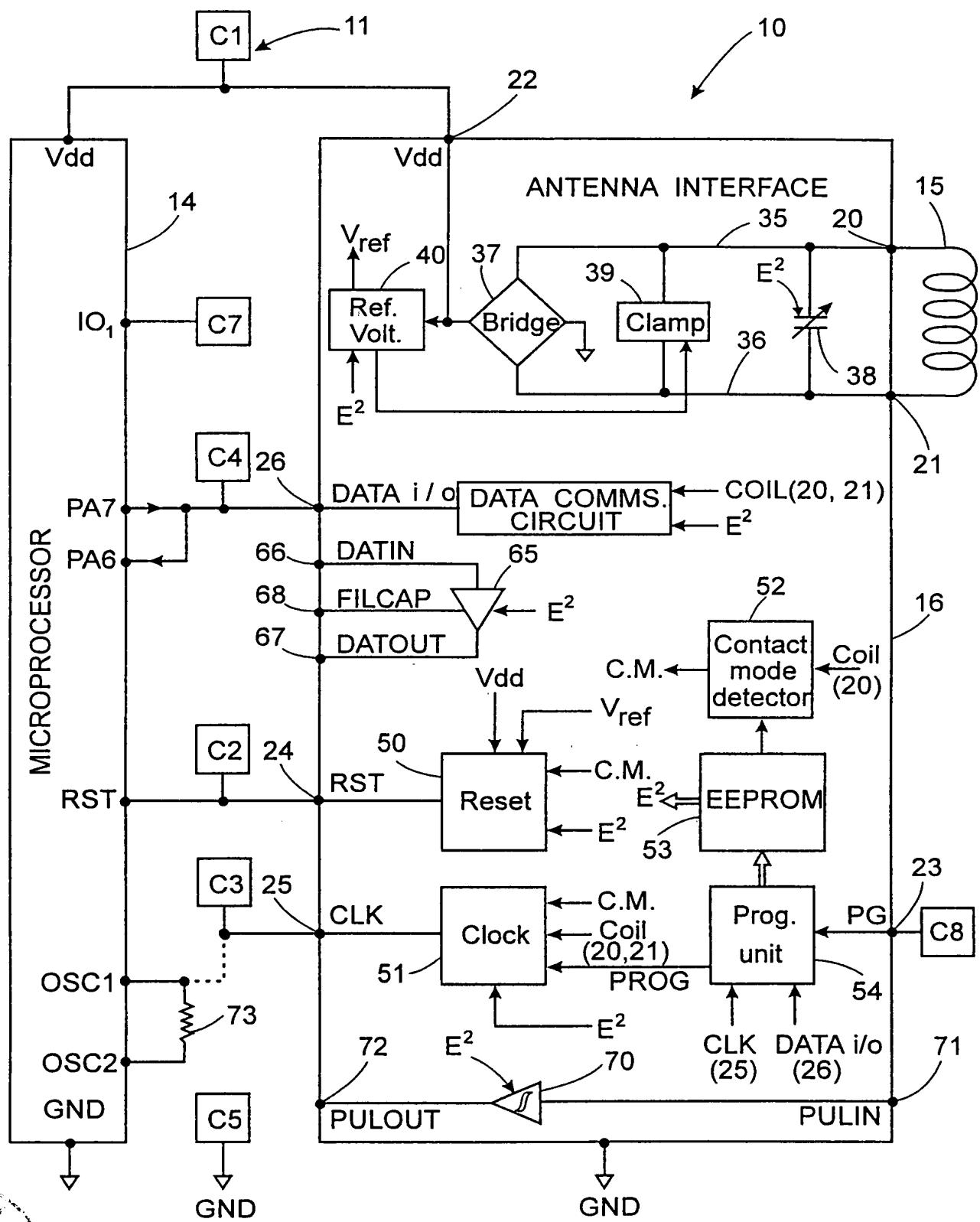


Fig . 10

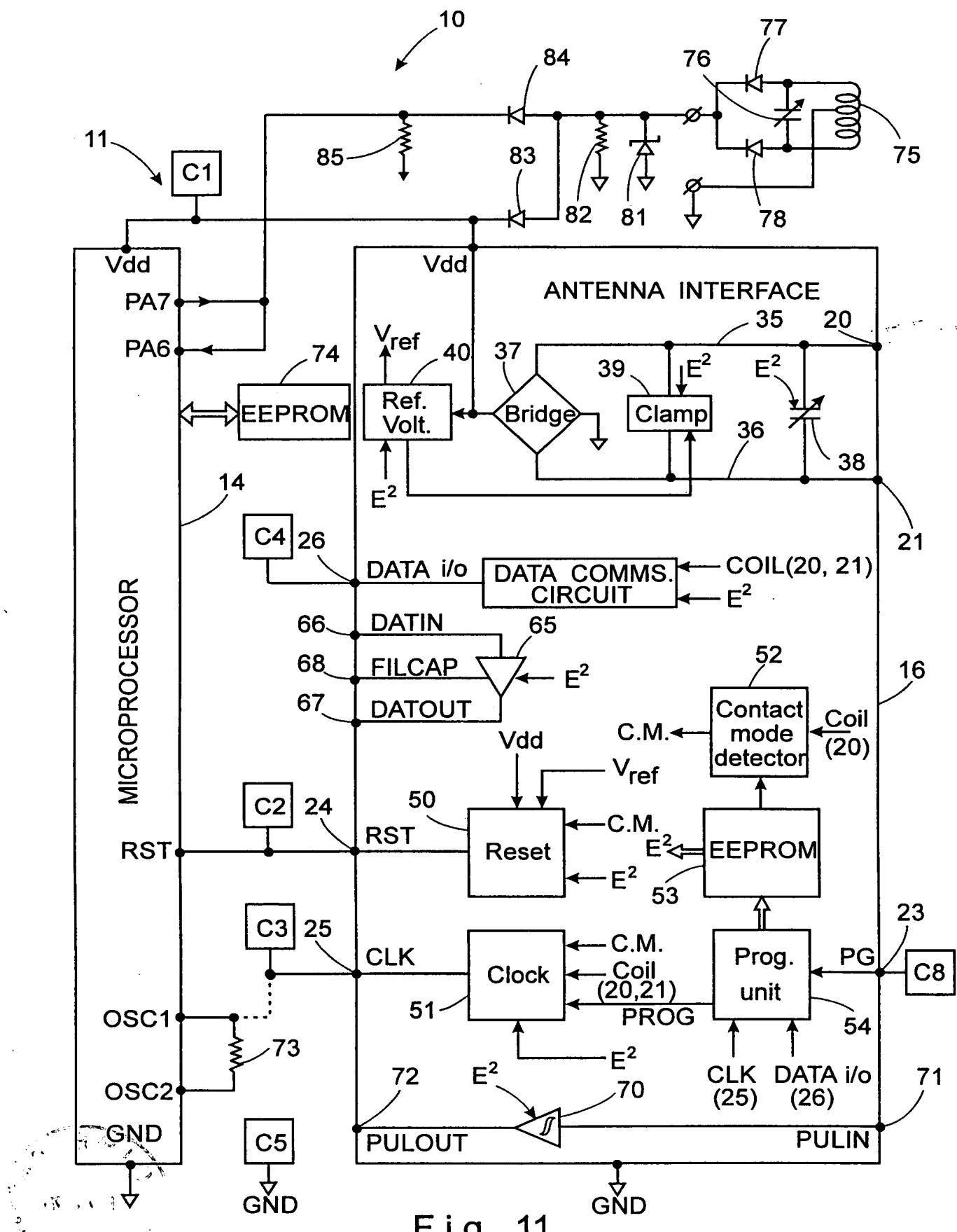


Fig. 11

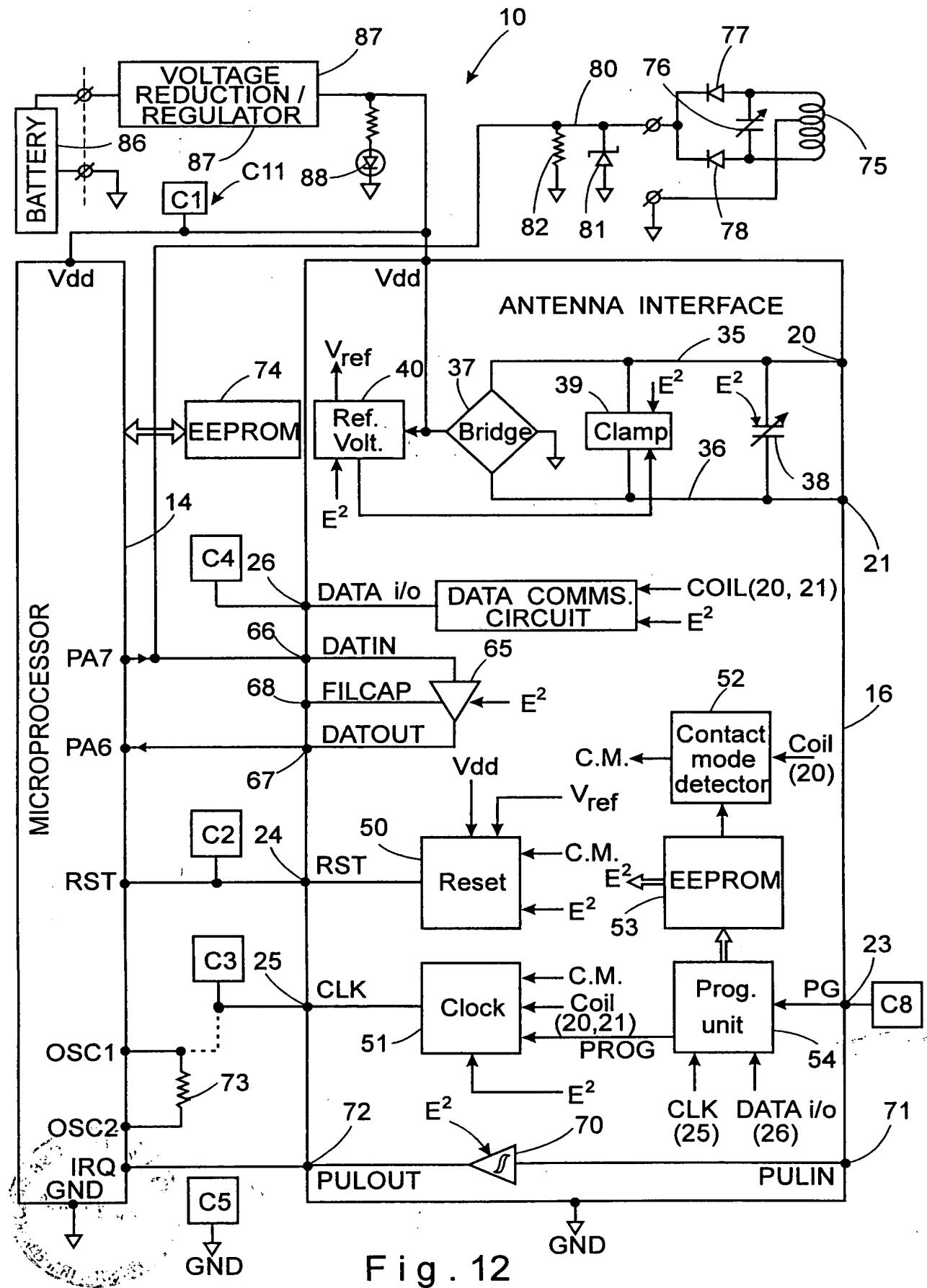


Fig. 12